

User Registration and User Profile

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Overview

User Registration and Profile Service

- allows users to register into ECS
- allows ECS sub-systems to retrieve user profile and registration information
- allows users to modify/update their user profile information

ECS Context

- Provides access to user profile and registration information from MSS/ECS Client/Data Server and User Services
 - accountability and accounting
 - billing and shipping
 - user services
 - subscriptions/ request tracking, etc.

Scenario Context

- Related to all Pull Scenarios



Overview (2)

Registration and Profile Service

- Adding a new user to ECS
- Modifying a user profile information
- Querying pending registration requests
- User account and profile record creation by User Services Operator
- MSS updating user profile based on order processing
- ECS Application Interfaces for profile and registry/security information
- Account and Profile Management Tools



Design Drivers

Architectural Drivers

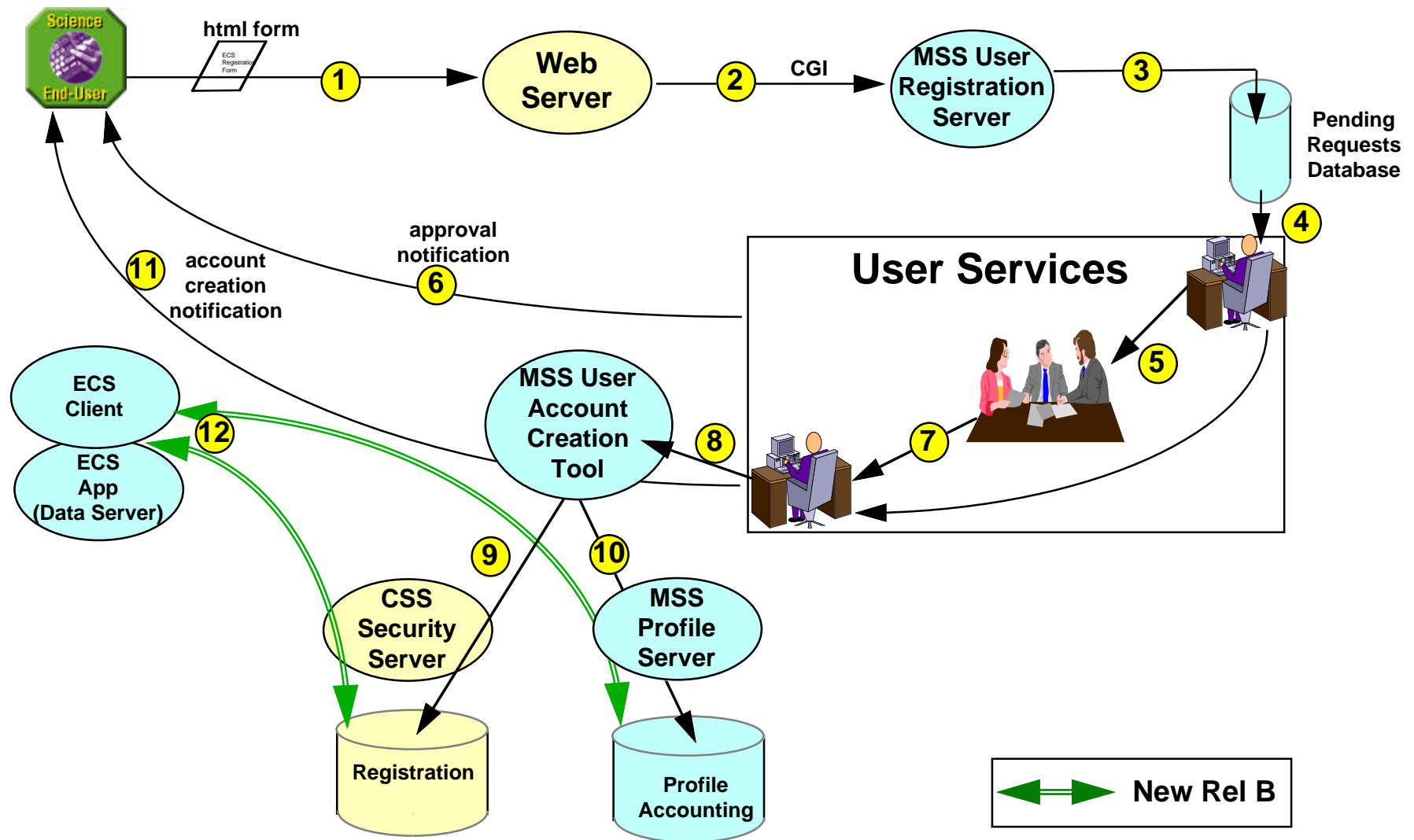
- Easy access to guest users to register into ECS (Web Interface)
- Easy distributed run-time access to profile information from every ECS sub-system
- Profile Update tool should be well integrated to the ECS workbench
- Policy neutral

New B features

- Account balance verification and validation for data processing requests based on ECS policy
- Dynamic Profile updating by ECS clients
- Tightly integrated with Billing and Accounting Application Service (BAAS)



High Level Event Flow



High Level Event Flow Description



- Guest user fills a registration form using any Web browser using a known URL
- Web server will invoke the Common Gateway Interface (CGI) to MSS Registration Server and pass all the information which the user filled
- MSS Registration server puts the user registration request in the *Pending Requests Database*
- M&O Operator queries the *Pending Requests Database* and presents the user request to the Review Panel
- Review Panel review the registration request, allocates the group id and other parameters based on ECS policy. They issue a notification to the Guest user that the request has been approved and he would be notified with his password and userid
- User services operator gets a approval notice which has all the information to create a user account. He invokes the MSS account creation tool
- 8 ● MSS account creation tool interfaces the CSS/DCE security database and the MSS Profile/Accounting server to enter the user information
- 9 ● User services notifies the user about his password and other account details
- Any ECS sub-system [Client, Data Server, Ingest etc..] will access the user information for security/accounting/profile, etc. information through the MSS APIs

Evolutionary Features



Potential Future Enhancements

- Batch Registration

Emerging Technology

- Replication features of COTS DBs for profile storage
- Extended registry attributed based on DCE Security services
- Extended Privilege Attribute Certificate (PAC) for order processing



Current Status

Next Steps

- Group Registration Policy
- Security Interoperability with ASTER
- Identify level of manual effort

Critical Decisions

- Security waiver for Data Encryption Standard (DES) for International users

Prototypes

- Parts of the event flows have been prototyped for EP6
- EP7 will include most other features of the registration and profile service
- Evaluating the extended registry features of DCE security service

Summary



Very flexible, distributed and easy to use “User Registration Form” based on a Web Interface

Policy neutral and permits various group policy concepts

Flexible interface to ECS sub-system to query User profile/security/accounting information [MSS interfaces]